

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet  
Spring 2014 Levee Inspection Results****Reclamation District No. 0150 Merrit Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
**SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 01 Sutter Slough			Left	0.54
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/03/2014 - 04/03/2014			
DWR Inspector	Pavel Kazi			
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	4	
LM End	0.00	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				°	
					°	
DWR ID	DWR_RD0150_01_s _ 2013_4					
Action/Comments						
Inspector Comments: This LMA has the updated O&M manuals for their district.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	5	
LM End	0.00	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Emergency Supplies & Equipment				°	°
					°	°
DWR ID	DWR_RD0150_01_s _ 2013_5					
Action/Comments						
Inspector Comments: This LMA has adequate amount of flood fighting materials in a centralized location.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	6	
LM End	0.00	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_RD0150_01_s _ 2013_6					
Action/Comments						
Inspector Comments: The crew of this LMA had flood fighting training from DWR.						

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.04	Rating **	M	Issue No.	1
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.332443 °	38.328222 °
				-121.582769 °	-121.576586 °
DWR ID	DWR_RD0150_01_s _ 2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : pkazi\_s\_20140404\_066.jpg



View of vegetation on the waterside slope of the levee looking upstream.

LM Start	0.20	Rating **	A/W	Issue No.	3
LM End	0.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331402 °	38.331402 °
				-121.580358 °	-121.580358 °
DWR ID	DWR_RD0150_01_s _ 2012_3				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : pkazi\_s\_20140328\_535.jpg



Elderberry bush was found on the landside of the levee. The picture was taken from the crown looking downstream.

LM Start	0.44	Rating **	M	Issue No.	2
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.328091 °	38.328606 °
				-121.576640 °	-121.577472 °
DWR ID					
Action/Comments					
Inspector Comments: 2013: Old toe repair unraveling. Bridge at upstream end of site. [2013 Site ID: STR 28-4 R]					

Photo 1 of 2 : USACE2013A\_STR\_28-4\_R\_14.jpg



USACE 2013 Photo #1

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
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N : Not Inspected/Rated  
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A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.54	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.44	Rating **	M	Issue No.	2 (cont)
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.328091 °	38.328606 °
				-121.576640 °	-121.577472 °
DWR ID					
Action/Comments					
Inspector Comments: 2013: Old toe repair unraveling. Bridge at upstream end of site. [2013 Site ID: STR 28-4 R]					

Photo 2 of 2 : USACE2013A\_STR\_28-4\_R\_17.jpg



USACE 2013 Photo #2

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
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**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Right	7.95
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/03/2014 - 04/03/2014			
DWR Inspector	Pavel Kazi			
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.14	Rating **	A/W	Issue No.	5
LM End	4.85	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.329782 °	38.374641 °
				-121.574769 °	-121.524730 °
DWR ID	DWR_RD0150_02_s _ 2012_5				
Action/Comments					
Environmental Requirements.					

No Photos

LM Start	0.16	Rating **	M	Issue No.	49
LM End	0.16	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.330047 °	38.330047 °
				-121.574538 °	-121.574538 °
DWR ID	DWR_RD0150_02_s _ 2012_49				
Action/Comments					
Building					

Photo 1 of 1 : pkazi\_s\_20140328\_563.jpg



Building located on waterside of levee at LM 0.16

LM Start	0.17	Rating **	M	Issue No.	990
LM End	0.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330173 °	38.330576 °
				-121.574490 °	-121.574093 °
DWR ID	DWR_RD0150_02_s _ 2012_990				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_589.jpg



Landscaping was found on the landside of the levee looking upstream.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.22	Rating **	M	Issue No.	48
LM End	7.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.330748 °	38.412828 °
				-121.573872 °	-121.522019 °
DWR ID	DWR_RD0150_02_s _ 2014_48				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : pkazi\_s\_20140404\_068.jpg



View of the vegetation on the waterside of the levee looking upstream.

LM Start	0.25	Rating **	U	Issue No.	4
LM End	0.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.331035 °	38.331035 °
				-121.573502 °	-121.573502 °
DWR ID	DWR_RD0150_02_s _ 2012_4				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_539.jpg



Landscaping on landward slope at LM 0.25 blocking view of levee slope.

LM Start	0.34	Rating **	M	Issue No.	9
LM End	0.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332156 °	38.332156 °
				-121.572580 °	-121.572580 °
DWR ID	DWR_RD0150_02_s _ 2012_9				
Action/Comments					
Fence					

Photo 1 of 1 : pkazi\_s\_20140328\_542.jpg



Fence was found on the landside of the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

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M : Minimally Acceptable  
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N : Not Inspected/Rated  
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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.39	Rating **	M	Issue No.	13
LM End	0.39	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.332647 °	38.332647 °
				-121.572140 °	-121.572140 °
DWR ID	DWR_RD0150_02_s_2012_13				
Action/Comments					
Stairway					

Photo 1 of 1 : pkazi\_s\_20140328\_545.jpg



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream.

LM Start	0.39	Rating **	M	Issue No.	3
LM End	0.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.332670 °	38.332670 °
				-121.572132 °	-121.572132 °
DWR ID	DWR_RD0150_02_s_2014_3				
Action/Comments					

Inspector Comments: FS\_ID:20268

EP\_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: - Water leaks from pressure breaker. Distribution box at the landward toe not found/visible. Service pole on LS toe.  
FIELD\_STRUCT\_DESC: 4-inch steel pipe joined to 6-inch steel pipe and the 6-inch pipe joined to 10-inch steel pipe through the levee, 5.8 feet below the crown. 1.5-inch conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterward slope. (Runyon).  
FS Date: 8/27/2013

Photo 1 of 1 : UCIP\_2205.jpg



WS view: walkway/stairs, pump on levee slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.40	Rating **	M	Issue No.	6
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.332717 °	38.332717 °
				-121.572083 °	-121.572083 °
DWR ID	DWR_RD0150_02_s _ 2012_6				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 2 : pkazi\_s\_20140404\_067.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

LM Start	<b>0.40</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>0.40</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_540.jpg



Slope instability was found on the waterside of the levee looking upstream.

LM Start	0.47	Rating **	M	Issue No.	7
LM End	0.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333527 °	38.333527 °
				-121.571274 °	-121.571274 °
DWR ID	DWR_RD0150_02_s_2014_7				
Action/Comments					
Inspector Comments: FS_ID:20267					

Photo 1 of 1 : UCIP\_2200.jpg



WS view: steel pipe and pump on levee slope. Dense vegetation on waterside.

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WS : Water Side  
CR : Crown

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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.49	Rating **	M	Issue No.	11
LM End	0.49	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.333754 °	38.333754 °
				-121.571018 °	-121.571018 °
DWR ID	DWR_RD0150_02_s _ 2014_11				
Action/Comments					
Inspector Comments: FS_ID:20284					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Needs proper abandonment.					
FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 5.7 feet below the crown. Power line on landside.(Mrs. J. Olson) O&M Manual					
SAC 112, March 1957.					
FS Date: 8/27/2013					

Photo 1 of 1 : UCIP\_2207.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

LM Start	0.70	Rating **	M	Issue No.	10
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.336228 °	38.336228 °
				-121.568332 °	-121.568332 °
DWR ID	DWR_RD0150_02_s _ 2013_10				
Action/Comments					
Debris					

Photo 1 of 1 : pkazi\_s\_20140328\_543.jpg



Debris was found on the waterside slope of the levee looking downstream during Spring 2013 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	0.71	Rating **	M	Issue No.	16
LM End	0.71	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.336183 °	38.336183 °
				-121.568383 °	-121.568383 °
DWR ID	DWR_RD0150_02_s_2014_16				
Action/Comments					
Inspector Comments: FS_ID:20303					
EP_NO: 16109					
Repair Type:					
Crossing Status:					
UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee. concrete standpipe inside water filtration plant on landside toe air pressure tank on waterside steel deck.					
FIELD_STRUCT_DESC: 16 inch steel pipe and 2-inch conduit through the levee, 6.2 feet below the crown, slant pump on steel platform on the waterward slope. 4-inch abandoned pipe on the waterside slope. Concrete stand pipe and power pole at landside toe. (App. No. 18258, Wilson 2007) O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

Photo 1 of 1 : UCIP\_2208.jpg



LS view: 10-inch pipe and air vent on levee slope. Concrete standpipe inside water filtration plant.

LM Start	0.98	Rating **	M	Issue No.	12
LM End	0.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.339035 °	38.339035 °
				-121.565145 °	-121.565145 °
DWR ID	DWR_RD0150_02_s_2012_12				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : pkazi\_s\_20140328\_544.jpg



Overgrown trees were obstructing the landside slope of the levee looking upstream.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	1.00	Rating **	M	Issue No.	18
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.339268 °	38.339268 °
				-121.564839 °	-121.564839 °
DWR ID	DWR_RD0150_02_s _ 2013_18				
Action/Comments					
Tree or limb					
Inspector Comments: Tree trunk was found on the waterside toe of the levee.					

Photo 1 of 2 : pkazi\_s\_20140404\_069.jpg



Updated picture of the tree trunk on the waterside toe of the levee looking upstream during spring 2014 inspection.

LM Start	<b>1.00</b>	Rating **	M	Issue No.	<b>18 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_549.jpg



A tree trunk was found on the waterside toe of the levee looking upstream during spring 2013 inspection.

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LS : Land Side  
WS : Water Side  
CR : Crown

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+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	1.16	Rating **	N	Issue No.	8
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.340864 °	38.340864 °
				-121.562915 °	-121.562915 °
DWR ID	DWR_RD0150_02_s _ 2012_8				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_541.jpg



View of a tree stump on the landward slope.

LM Start	1.28	Rating **	M	Issue No.	92
LM End	1.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342229 °	38.342229 °
				-121.561694 °	-121.561694 °
DWR ID	DWR_RD0150_02_s _ 2012_92				
Action/Comments					
Landscaping					

No Photos

LM Start	1.34	Rating **	M	Issue No.	91
LM End	1.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.342969 °	38.343252 °
				-121.561196 °	-121.560794 °
DWR ID	DWR_RD0150_02_s _ 2012_91				
Action/Comments					
Landscaping					

Photo 1 of 2 : pkazi\_s\_20140328\_577.jpg



Landscaping was found landside of the levee looking upstream.

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

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**+ Issue Type**  
Ma : Maintenance Deficiency  
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**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	1.34	Rating **	M	Issue No.	91 (cont)	
LM End	1.37	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.342969 °		38.343252 °
				-121.561196 °		-121.560794 °
DWR ID	DWR_RD0150_02_s _ 2012_91					
Action/Comments						
Landscaping						

Photo 2 of 2 : pkazi\_s\_20140328\_578.jpg



Landscaping was obstructing the view of the landside slope of the levee looking downstream. This picture was taken during spring 2013 inspection.

LM Start	1.36	Rating **	M	Issue No.	19
LM End	1.36	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.343136 °	38.343136 °
				-121.560868 °	-121.560868 °
DWR ID	DWR_RD0150_02_s _ 2014_19				
Action/Comments					

Inspector Comments: FS\_ID:20727

EP\_NO: 18221

Repair Type:

Crossing Status:

UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside. Pumps on piling structure with shed in drainage ditch. Siphon breaker cover missing. Needs to fix it.

FIELD\_STRUCT\_DESC: 1 of 2: 30-inch pipe (of 30-inch and 24-inch steel pipes), 7.0 feet below the crown replaced 36-inch and 24-inch pipes through the levee, 9.0 and 8.0 feet below the crown respectively. Flap gates on the waterward ends. Siphon breakers on the waterward slope. Pumps on piling structure with shed in drainage ditch. (App. No. 18221 - R.D. No. 150 drainage plant). O&M Manual SAC 112, March 1957.

FS Date: 8/27/2013

Photo 1 of 1 : UCIP\_2297.jpg



LS view: pipe, walkway, and pump structure in drainage ditch.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	1.94	Rating **	M	Issue No.	21
LM End	1.94	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.346448 °	38.346448 °
				-121.551293 °	-121.551293 °
DWR ID	DWR_RD0150_02_s _ 2014_21				

**Action/Comments**

Inspector Comments: FS\_ID:20348

EP\_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: - Operating during inspection. Overhead powerline crossing CMP riser with siphon breaker needs cleaning.

FIELD\_STRUCT\_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown; pump on the piling in the stream. Power poles on both slopes. Ramp on the landward slope. Siphon breaker on the landward shoulder. (T. Wilson). O&M Manual SAC 112, March 1957.

FS Date: 8/27/2013

Photo 1 of 1 : UCIP\_2214.jpg



WS view: pipe & pump on piling structure in the stream.

LM Start	2.17	Rating **	M	Issue No.	22
LM End	2.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.347032 °	38.347032 °
				-121.547159 °	-121.547159 °
DWR ID	DWR_RD0150_02_s _ 2014_22				

**Action/Comments**

Inspector Comments: FS\_ID:20731

EP\_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: - Operating during inspection. Leaky join at the concrete box. Power overhead crossing. Power pole at waterside shoulder, and landside toe.

FIELD\_STRUCT\_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown, slant pump on the waterward slope. Power pole on the waterward shoulder. (Wilcox) O&M Manual SAC 112, March 1957.

FS Date: 8/27/2013

Photo 1 of 1 : UCIP\_2301.jpg



WS view: slant pump on steel frame support and exposed pipe on levee slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	2.31	Rating **	M	Issue No.	88
LM End	2.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.347355 °	38.347361 °
				-121.544628 °	-121.544280 °
DWR ID	DWR_RD0150_02_s _ 2012_88				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_576.jpg



Landscaping was found on the landside of the levee. The picture was taken from the crown looking upstream.

LM Start	2.75	Rating **	M	Issue No.	23
LM End	2.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.349542 °	38.349542 °
				-121.537451 °	-121.537451 °
DWR ID	DWR_RD0150_02_s _ 2012_23				
Action/Comments					
Tank					
Inspector Comments: Tank was found with the 10 feet of toe landside easement.					

Photo 1 of 1 : pkazi\_s\_20140328\_551.jpg



A tank was found on the landside toe of the levee looking upstream.

LM Start	2.80	Rating **	N	Issue No.	14
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.350041 °	38.350041 °
				-121.536853 °	-121.536853 °
DWR ID	DWR_RD0150_02_s _ 2012_14				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_546.jpg



View of a tree stump on the landward slope.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	2.89	Rating **	M	Issue No.	25
LM End	2.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.350911 °	38.350911 °
				-121.535653 °	-121.535653 °
DWR ID	DWR_RD0150_02_s_2014_25				
Action/Comments					
Inspector Comments: FS_ID:20732					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - 2" conduit on WSdepression on LS slopenew replacement pipe on both sidesold pipe, pump and piling structure abandoned.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 5.8 feet below the crown; pump on piling in stream. A 2-inch electric conduit on waterside. Service pole and concrete standpipe at the toe of the landward slope. (A. E. Green) O&M Manual SAC 112, March 1957.					
FS Date: 8/27/2013					

Photo 1 of 1 : UCIP\_2307.jpg



WS view: abandoned walkway on piling structure in the stream.

LM Start	3.02	Rating **	U	Issue No.	85
LM End	3.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.352372 °	38.352802 °
				-121.534127 °	-121.533638 °
DWR ID	DWR_RD0150_02_s_2012_85				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_575.jpg



Landscaping providing a screen for a residence on landside of levee from LM 3.02 to LM 3.06

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.29	Rating **	M	Issue No.	961
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.355321 °	38.355321 °
				-121.530902 °	-121.530902 °
DWR ID	DWR_RD0150_02_s _ 2012_961				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.					

Photo 1 of 6 : pkazi\_s\_20140328\_580.jpg



View of erosion on the waterward slope looking upstream. Depressions into the slope can be seen in several places.

LM Start	<b>3.29</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 6 : pkazi\_s\_20140328\_581.jpg



Additional view of erosion on the waterward slope looking upstream. Note the damaged pump support, pump, and pipe just upstream of the site.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2014

### Reclamation District No. 0150 Merritt Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.29	Rating **	M	Issue No.	961 (cont)	
LM End	3.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.355321 °	38.355321 °	
				-121.530902 °	-121.530902 °	
DWR ID	DWR_RD0150_02_s _ 2012_961					
Action/Comments						
Schedule repair of erosion site prior to the next inspection.						

Photo 3 of 6 : pkazi\_s\_20140328\_582.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

LM Start	<b>3.29</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 6 : pkazi\_s\_20140328\_583.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.29	Rating **	M	Issue No.	961 (cont)	
LM End	3.29	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.355321 °	38.355321 °	
				-121.530902 °	-121.530902 °	
DWR ID	DWR_RD0150_02_s _ 2012_961					
Action/Comments						
Schedule repair of erosion site prior to the next inspection.						

Photo 5 of 6 : pkazi\_s\_20140328\_584.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

LM Start	<b>3.29</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>3.29</b>	Issue Type +	Ma	Location *	WS

Photo 6 of 6 : pkazi\_s\_20140328\_585.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.30	Rating **	M	Issue No.	26
LM End	3.30	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.355360 °	38.355360 °
				-121.530838 °	-121.530838 °
DWR ID	DWR_RD0150_02_s _ 2014_26				
Action/Comments					
Inspector Comments: FS_ID:20736					

Photo 1 of 1 : UCIP\_2311.jpg



WS view: pipe, conduit and pump on levee slope.

LM Start	3.35	Rating **	A/W	Issue No.	17
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.355979 °	38.355979 °
				-121.530288 °	-121.530288 °
DWR ID	DWR_RD0150_02_s _ 2012_17				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.56	Rating **	M	Issue No.	35
LM End	3.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358094 °	38.358094 °
				-121.527618 °	-121.527618 °
DWR ID	DWR_RD0150_02_s _ 2014_35				
Action/Comments					
Inspector Comments: FS_ID:19846					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.					
1.5" electric conduit on WS10" steel pipe extended to 8" pvc pipe on landside levee toe.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, pump and gate valve on the waterward slope. (R & J Pylman). O&M Manual SAC 112, March 1957.					
FS Date: 8/30/2013					

Photo 1 of 1 : UCIP\_2134.jpg



WS view: pipe, pump, and conduit on levee slope.

LM Start	3.56	Rating **	A/W	Issue No.	15
LM End	3.56	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.358152 °	38.358152 °
				-121.527579 °	-121.527579 °
DWR ID	DWR_RD0150_02_s _ 2012_15				
Action/Comments					
Pipe					
Inspector Comments: PVC pipe is sleeving through an old steel pipe.					
The steel pipe appears to be fine for now, but we should keep an eye on it.					

Photo 1 of 2 : pkazi\_s\_20140328\_547.jpg



A PVC pipe was used under the levee crown for irrigation purpose. The picture was taken from the crown looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side		A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.56	Rating **	A/W	Issue No.	15 (cont)	
LM End	3.56	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.358152 °	38.358152 °	
				-121.527579 °	-121.527579 °	
DWR ID	DWR_RD0150_02_s _ 2012_15					
Action/Comments						
Pipe Inspector Comments: PVC pipe is sleeving through an old steel pipe. The steel pipe appears to be fine for now, but we should keep an eye on it.						

Photo 2 of 2 : pkazi\_s\_20140328\_548.jpg



A PVC pipe was used to pump the water from waterside of the levee. It appeared that the PVC pipe was penetrating through a corroded steel casing through the levee crown. The picture was taken from the crown of the levee looking upstream during spring 2013 inspection.

LM Start	3.56	Rating **	M	Issue No.	36
LM End	3.56	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.358131 °	38.358131 °
				-121.527540 °	-121.527540 °
DWR ID	DWR_RD0150_02_s _ 2014_36				
Action/Comments					
Inspector Comments: FS_ID:19848					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - needs proper abandonment.					
FIELD_STRUCT_DESC: Abandoned 4-inch steel pipe on landward					
slope. 1-inch steel conduit on waterward slope found.					
FS Date: 8/30/2013					

Photo 1 of 1 : UCIP\_2137.jpg



LS view: abandoned 4-inch steel pipe on levee slope.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	3.60	Rating **	U	Issue No.	82
LM End	3.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358565 °	38.359729 °
				-121.527153 °	-121.525345 °
DWR ID	DWR_RD0150_02_s _ 2012_82				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_574.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

LM Start	3.90	Rating **	M	Issue No.	80
LM End	3.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.361419 °	38.361752 °
				-121.523225 °	-121.522974 °
DWR ID	DWR_RD0150_02_s _ 2012_80				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_573.jpg



Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.

LM Start	3.94	Rating **	M	Issue No.	33
LM End	3.94	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.361970 °	38.361970 °
				-121.522777 °	-121.522777 °
DWR ID	DWR_RD0150_02_s _ 2012_33				
Action/Comments					
Stairway					

Photo 1 of 1 : pkazi\_s\_20140328\_557.jpg



A stairway was found on the waterside slope of the levee.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	4.15	Rating **	M	Issue No.	20
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.364854 °	38.365104 °
				-121.522378 °	-121.522365 °
DWR ID	DWR_RD0150_02_s _ 2012_20				
Action/Comments					
Building					
Inspector Comments: 3' retaining wall at the landward shoulder.					

Photo 1 of 1 : pkazi\_s\_20140328\_550.jpg



View of a retaining wall on the landward slope looking upstream.

LM Start	4.17	Rating **	M	Issue No.	953
LM End	4.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.365162 °	38.365162 °
				-121.522365 °	-121.522365 °
DWR ID	DWR_RD0150_02_s _ 2012_953				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_579.jpg



View of cacti on the landside of the levee looking from the crown.

LM Start	4.33	Rating **	U	Issue No.	24
LM End	4.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.367442 °	38.367740 °
				-121.522427 °	-121.522495 °
DWR ID	DWR_RD0150_02_s _ 2012_24				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_552.jpg



Landscaping (Oleander) on landward slope from 4.33 to 4.35

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	4.37	Rating **	U	Issue No.	79
LM End	4.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.368036 °	38.368540 °
				-121.522611 °	-121.522729 °
DWR ID	DWR_RD0150_02_s _ 2012_79				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_572.jpg



Trees were obstructing the views on the landside slope of the levee looking downstream.

LM Start	4.56	Rating **	M	Issue No.	50
LM End	7.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.370656 °	38.406480 °
				-121.523238 °	-121.517702 °
DWR ID	DWR_RD0150_02_s _ 2014_50				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	4.57	Rating **	M	Issue No.	1
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.370928 °	38.371909 °
				-121.523069 °	-121.523316 °
DWR ID					
Action/Comments					
Inspector Comments: 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013: Tree at upstream end has exposed roots. Some new erosion. [2013 Site ID: SAC_38-5_R]					

No Photos

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	4.76	Rating **	M	Issue No.	28
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373485 °	38.373485 °
				-121.523963 °	-121.523963 °
DWR ID	DWR_RD0150_02_s _ 2012_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

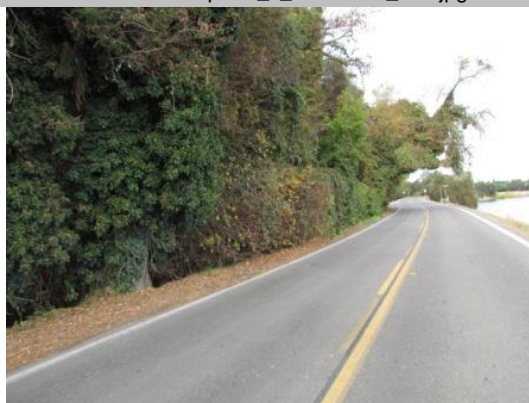
Photo 1 of 1 : pkazi\_s\_20140328\_554.jpg



Century plant on waterward slope at LM 4.76

LM Start	4.78	Rating **	U	Issue No.	76
LM End	4.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.373688 °	38.373970 °
				-121.524280 °	-121.524403 °
DWR ID	DWR_RD0150_02_s _ 2012_76				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_571.jpg



Trees were obstructing the view of the landside slope of the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	4.93	Rating **	M	Issue No.	69
LM End	4.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.375731 °	38.375731 °
				-121.525245 °	-121.525245 °
DWR ID	DWR_RD0150_02_f_2013_69				
Action/Comments					
Pipe Inspector Comments: The pipe cover is not a water tight connection. During high water, water may leak through the pipe and get into the landside.					

Photo 1 of 1 : pkazi\_s\_20140328\_569.jpg



The pipe cover doesn't appear to be water tight on the waterside slope of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2013 inspection.

LM Start	4.98	Rating **	N	Issue No.	39
LM End	4.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.376392 °	38.376392 °
				-121.525429 °	-121.525429 °
DWR ID	DWR_RD0150_02_s_2012_39				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_560.jpg



Tree stumps were found on the landside of the levee looking from the crown.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	5.14	Rating **	M	Issue No.	30
LM End	5.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378715 °	38.379052 °
				-121.525458 °	-121.525341 °
DWR ID	DWR_RD0150_02_s _ 2012_30				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_555.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

LM Start	5.14	Rating **	A/W	Issue No.	40
LM End	7.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.378674 °	38.414029 °
				-121.525423 °	-121.522991 °
DWR ID	DWR_RD0150_02_s _ 2012_40				
Action/Comments					
Environmental Requirements.					

No Photos

LM Start	5.17	Rating **	M	Issue No.	75
LM End	5.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.379054 °	38.379769 °
				-121.525341 °	-121.525024 °
DWR ID	DWR_RD0150_02_s _ 2012_75				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_570.jpg



View of landscaping along the landward shoulder and slope looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	5.32	Rating **	M	Issue No.	37
LM End	5.32	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.381079 °	38.381079 °
				-121.524166 °	-121.524166 °
DWR ID	DWR_RD0150_02_s _ 2014_37				
Action/Comments					
Inspector Comments: FS_ID:20740					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - 2" electric conduit and gate valve on WS.					
abandoned old pump not removed from WS					
working during field survey					
FIELD_STRUCT_DESC: 12-inch pipe and 2-inch electric conduit					
through the levee, 3.0 feet below the crown. Service pole and					
standpipe at the toe of the landward slope. (C. Sakai) O&M Manual					
SAC 112, March 1957.					
FS Date: 8/30/2013					

Photo 1 of 1 : UCIP\_2316.jpg



WS view: pipe, walkway, slant pump &amp; pump platform on stream bank.

LM Start	5.33	Rating **	M	Issue No.	976
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524208 °	-121.524208 °
DWR ID	DWR_RD0150_02_s _ 2012_976				
Action/Comments					
Repair slope instability. Inspector Comments: Cavity located under rock rip rap on waterward slope at the shoulder over an irrigation pipe.					

Photo 1 of 1 : pkazi\_s\_20140328\_588.jpg

View of rock placed on a pipe penetration on the waterward slope.  
Cavities can be seen under the rocks.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	5.33	Rating **	M	Issue No.	975
LM End	5.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.381126 °	38.381126 °
				-121.524207 °	-121.524207 °
DWR ID	DWR_RD0150_02_s _ 2013_975				
Action/Comments					
Repair slope instability. Inspector Comments: Depression in the landward slope at the shoulder over an irrigation pipe.					

Photo 1 of 2 : pkazi\_s\_20140328\_586.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

LM Start	<b>5.33</b>	Rating **	M	Issue No.	<b>975 (cont)</b>
LM End	<b>5.33</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_587.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	5.34	Rating **	M	Issue No.	51
LM End	5.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.381233 °	38.381233 °
				-121.524078 °	-121.524078 °
DWR ID	DWR_RD0150_02_s _ 2014_51				
Action/Comments					
Pipe					

Photo 1 of 1 : pkazi\_s\_20140404\_070.jpg



View of a damaged pipe on the landside toe of the levee looking upstream.

LM Start	5.47	Rating **	M	Issue No.	74
LM End	5.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.382675 °	38.382793 °
				-121.522367 °	-121.522164 °
DWR ID	DWR_RD0150_02_s _ 2012_74				
Action/Comments					
Landscaping					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	6.23	Rating **	M	Issue No.	44
LM End	6.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.391099 °	38.391099 °
				-121.514913 °	-121.514913 °
DWR ID	DWR_RD0150_02_s_2014_44				

**Action/Comments**

Inspector Comments: FS\_ID:20748

EP\_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: - slope erosion due leaky siphon breaker at CMP rise/leaky pipe and pump service pole on LS electric conduit on WS

FIELD\_STRUCT\_DESC: 10-inch steel pipe and an electric conduit through the levee, 4.8 feet below the crown. Slant pump on the waterward slope. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Slope erosion on landside of levee at siphon breaker. (Ed. Boyles) O&M Manual SAC 112, March 1957.

FS Date: 8/30/2013

Photo 1 of 1 : UCIP\_2325.jpg



WS view: steel pipe and slant pump on levee slope.

LM Start	6.41	Rating **	M	Issue No.	27
LM End	6.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393655 °	38.393655 °
				-121.514654 °	-121.514654 °
DWR ID	DWR_RD0150_02_s_2012_27				

**Action/Comments**

Landscaping

Inspector Comments: Century plant on the landward slope.

Photo 1 of 1 : pkazi\_s\_20140328\_553.jpg



Century plant was found on the landside of the levee looking upstream.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	6.42	Rating **	M	Issue No.	29
LM End	6.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.393850 °	38.393850 °
				-121.514629 °	-121.514629 °
DWR ID	DWR_RD0150_02_s _ 2012_29				
Action/Comments					
Landscaping					

No Photos

LM Start	6.46	Rating **	M	Issue No.	31
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394416 °	38.394416 °
				-121.514590 °	-121.514590 °
DWR ID	DWR_RD0150_02_s _ 2012_31				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_556.jpg



Trees need to be trimmed on the landside of the levee looking upstream.

LM Start	6.50	Rating **	M	Issue No.	65
LM End	6.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.394935 °	38.395931 °
				-121.514597 °	-121.514604 °
DWR ID	DWR_RD0150_02_s _ 2012_65				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_568.jpg



View of landscaping along the waterward shoulder and slope looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	6.53	Rating **	M	Issue No.	34
LM End	6.53	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395340 °	38.395340 °
				-121.514528 °	-121.514528 °
DWR ID	DWR_RD0150_02_s_2012_34				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_558.jpg



Landscaping was found on the waterside of the levee looking upstream.

LM Start	6.59	Rating **	M	Issue No.	42
LM End	6.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396235 °	38.396235 °
				-121.514547 °	-121.514547 °
DWR ID	DWR_RD0150_02_s_2012_42				
Action/Comments					
Stairway					

Photo 1 of 1 : pkazi\_s\_20140328\_561.jpg



A stairway was found on the waterside slope of the levee looking upstream.

LM Start	6.60	Rating **	C	Issue No.	2
LM End	6.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.396374 °	38.396374 °
				-121.514534 °	-121.514534 °
DWR ID	DWR_RD0150_02_f_2012_2				
Action/Comments					
Debris					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	6.61	Rating **	M	Issue No.	45
LM End	6.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.396449 °	38.396449 °
				-121.514516 °	-121.514516 °
DWR ID	DWR_RD0150_02_s _ 2014_45				
Action/Comments					
Inspector Comments: FS_ID:20754					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment.					
FIELD_STRUCT_DESC: Only an abandoned and dismantled CMP riser with gate valve found on waterside levee slope.					
FS Date: 8/30/2013					

Photo 1 of 1 : UCIP\_2331.jpg



WS view: an abandoned and dismantled CMP riser on WS levee slope.

LM Start	6.67	Rating **	U	Issue No.	64
LM End	6.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397411 °	38.398033 °
				-121.514681 °	-121.514753 °
DWR ID	DWR_RD0150_02_s _ 2012_64				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_567.jpg



Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	6.75	Rating **	M	Issue No.	43
LM End	6.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.398456 °	38.398456 °
				-121.514735 °	-121.514735 °
DWR ID	DWR_RD0150_02_s _ 2012_43				
Action/Comments					
Landscaping					
Inspector Comments: Century plant on landside of the levee.					

Photo 1 of 1 : pkazi\_s\_20140328\_562.jpg



Century plants were found on the landside of the levee looking upstream.

LM Start	6.83	Rating **	M	Issue No.	38
LM End	6.83	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.399623 °	38.399623 °
				-121.514877 °	-121.514877 °
DWR ID	DWR_RD0150_02_s _ 2013_38				
Action/Comments					
Stairway					

Photo 1 of 1 : pkazi\_s\_20140328\_559.jpg



A stair was found on the waterside slope of the levee looking upstream during spring 2013 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	6.92	Rating **	M	Issue No.	46
LM End	6.92	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.400835 °	38.400835 °
				-121.515066 °	-121.515066 °
DWR ID	DWR_RD0150_02_s _ 2014_46				
Action/Comments					
Inspector Comments: FS_ID:20763					
EP_NO: 1703					
Repair Type:					
Crossing Status:					
UCIP Comments: - significant erosion along pipe alignment on LS slope.pump on concrete pad.service pole on LS slope.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.5 feet below the crown, pump and gate valve on the waterward slope. Service pole and standpipe on the landward shoulder. (App. No. 1703 - M. Silva).					
FS Date: 8/30/2013					

Photo 1 of 1 : UCIP\_2334.jpg



WS view: steel pipe, electric conduit, gate valve, and pump on levee slope.

LM Start	6.93	Rating **	U	Issue No.	60
LM End	7.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.400936 °	38.402613 °
				-121.515173 °	-121.515863 °
DWR ID	DWR_RD0150_02_s _ 2012_60				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_566.jpg



Landscaping providing a screen for a residence on the landside of levee from LM 6.93 to LM 7.05

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	7.11	Rating **	M	Issue No.	47
LM End	7.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.403512 °	38.403512 °
				-121.516162 °	-121.516162 °
DWR ID	DWR_RD0150_02_s _ 2014_47				
Action/Comments					
Inspector Comments: FS_ID:20203					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - soil erosion along pipe alignment on LS slope.					
needs more investigation and mitigation for soil erosion.					
FIELD_STRUCT_DESC: 8-inch steel pipe through the levee 10.0 feet					
below the crown, pump on concrete slab and slide gate in CMP riser on					
the waterward slope. Pipe through the levee section encased in					
reinforced concrete. A concrete standpipe on landside toe. (A. Monice).					
FS Date: 8/30/2013					

Photo 1 of 1 : UCIP\_2194.jpg



WS view: CMP riser with slide gate and pump (right) on levee slope.

LM Start	7.12	Rating **	M	Issue No.	58
LM End	7.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403631 °	38.403631 °
				-121.516299 °	-121.516299 °
DWR ID	DWR_RD0150_02_s _ 2012_58				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_565.jpg



Landscaping providing a screen for a residence on landside of levee at LM 7.12

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.95	04/03/2014 04/03/2014	Pavel Kazi

LM Start	7.34	Rating **	A/W	Issue No.	32
LM End	7.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.406454 °	38.406454 °
				-121.517732 °	-121.517732 °
DWR ID	DWR_RD0150_02_s _ 2012_32				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	7.91	Rating **	M	Issue No.	41
LM End	7.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413563 °	38.413563 °
				-121.522593 °	-121.522593 °
DWR ID	DWR_RD0150_02_s _ 2013_41				
Action/Comments					
Landscaping					

No Photos

LM Start	7.92	Rating **	M	Issue No.	56
LM End	7.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.413705 °	38.413705 °
				-121.522806 °	-121.522806 °
DWR ID	DWR_RD0150_02_s _ 2012_56				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_564.jpg



Landscaping on landside of levee at LM 7.92

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2014 Levee Inspection Results**

**Reclamation District No. 0150 Merrit Island**

Waterway			Bank	Unit Miles
Unit No. 03 Elk Slough			Left	9.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/04/2014 - 04/08/2014			
DWR Inspector	Pavel Kazi			
Accompanied By				

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	0.01	Rating **	M	Issue No.	2
LM End	0.01	Issue Type +	Ob	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			38.332735 °	38.413893 °
				-121.583625 °	-121.522896 °
DWR ID					

No Photos

**Action/Comments**

Inspector Comments: 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed. 2013: No observed changes. [2013 Site ID: ELK\_0-2\_L]

LM Start	0.11	Rating **	A/W	Issue No.	936
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.334233 °	38.334233 °
				-121.583414 °	-121.583414 °
DWR ID	DWR_RD0150_03_s_2012_936				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : pkazi\_s\_20140328\_708.jpg



View of elderberry bush within 20 feet of shoulder blocking visibility and access.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	0.36	Rating **	M	Issue No.	3
LM End	0.36	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.337442 °	38.337442 °
				-121.581628 °	-121.581628 °
DWR ID	DWR_RD0150_03_s _ 2012_3				
Action/Comments					
Building Inspector Comments: Steps, water, electricity, and dock on waterward slope.					

Photo 1 of 1 : pkazi\_s\_20140328\_609.jpg



View of steps, a dock, and associated utilities on the waterward slope.

LM Start	0.38	Rating **	M	Issue No.	42
LM End	0.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.337632 °	38.337632 °
				-121.581532 °	-121.581532 °
DWR ID	DWR_RD0150_03_s _ 2012_42				
Action/Comments					
Landscaping Inspector Comments: ice plant on land slope					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	0.39	Rating **	M	Issue No.	6
LM End	0.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.337928 °	38.337928 °
				-121.581496 °	-121.581496 °
DWR ID	DWR_RD0150_03_s _ 2014_6				
Action/Comments					
Inspector Comments: FS_ID:19104					
EP_NO: 13612					
Repair Type:					
Crossing Status:					
UCIP Comments: Abandoned. Proper abandone needs.					
FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the					
levee, 3.5 feet below the crown. Pump and gate valve on the waterward					
slope.					
FS Date: 8/20/2013					

Photo 1 of 1 : UCIP\_1780.jpg



WS view: pipe and pump on levee slope.

LM Start	0.41	Rating **	M	Issue No.	8
LM End	0.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.338131 °	38.338131 °
				-121.581434 °	-121.581434 °
DWR ID	DWR_RD0150_03_s _ 2014_8				
Action/Comments					
Inspector Comments: FS_ID:19095					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Seems to be abandonedService pole on LS slope.					
1" conduit through leveeMay need proper abandonment.					
FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterward slope.					
FS Date: 8/20/2013					

Photo 1 of 1 : UCIP\_1777.jpg



WS view: pipe, gate valve, and pump on levee slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	0.46	Rating **	C	Issue No.	111
LM End	0.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.338858 °	38.338858 °
				-121.581318 °	-121.581318 °
DWR ID	DWR_RD0150_03_f_2013_111				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	0.67	Rating **	M	Issue No.	81
LM End	1.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.341839 °	38.346783 °
				-121.580437 °	-121.578928 °
DWR ID	DWR_RD0150_03_s_2014_81				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : pkazi\_s\_20140408\_079.jpg



View of vegetation on the landside of the levee looking upstream.

LM Start	0.92	Rating **	A/W	Issue No.	5
LM End	0.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.345293 °	38.345634 °
				-121.579769 °	-121.579574 °
DWR ID	DWR_RD0150_03_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : pkazi\_s\_20140328\_612.jpg



View of elderberries on the landward slope blocking visibility and access.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	1.38	Rating **	M	Issue No.	10
LM End	1.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.347489 °	38.347489 °
				-121.573302 °	-121.573302 °
DWR ID	DWR_RD0150_03_s_2014_10				
Action/Comments					
Inspector Comments: FS_ID:19112					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: No handrail on wooden walkway.					
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown, pump in pump house on the waterward slope. Service pole and steel distribution box on the landward slope.					
FS Date: 8/20/2013					

Photo 1 of 1 : UCIP\_1785.jpg



WS view: pipe, wooden walkway and pump house in channel.

LM Start	1.60	Rating **	M	Issue No.	83
LM End	2.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.350181 °	38.353669 °
				-121.572756 °	-121.566808 °
DWR ID	DWR_RD0150_03_s_2014_83				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	1.81	Rating **	M	Issue No.	14
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.353180 °	38.353180 °
				-121.572907 °	-121.572907 °
DWR ID	DWR_RD0150_03_s_2014_14				
Action/Comments					
Inspector Comments: FS_ID:19137					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Small depression on WS slope due to leak from pumpPipe opens on LS ditch/depression.					
FIELD_STRUCT_DESC: 10-inch pipe through the levee, 3.4 feet below the crown, pump, gate valve and service pole on the waterward slope.					
FS Date: 8/20/2013					

Photo 1 of 1 : UCIP\_1792.jpg



WS view: exposed pipe on levee slope.

LM Start	1.82	Rating **	M	Issue No.	50
LM End	1.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.353249 °	38.353249 °
				-121.572848 °	-121.572848 °
DWR ID	DWR_RD0150_03_s_2012_50				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Erosion appeared under the pipe.					

Photo 1 of 2 : pkazi\_s\_20140328\_648.jpg



Erosion was found on the waterside slope of the levee near the vicinity of the pipe. The picture was taken from the crown looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	1.82	Rating **	M	Issue No.	50 (cont)
LM End	1.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.353249 °	38.353249 °
				-121.572848 °	-121.572848 °
DWR ID	DWR_RD0150_03_s _ 2012_50				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Erosion appeared under the pipe.					

Photo 2 of 2 : pkazi\_s\_20140328\_649.jpg



Steps were dug next to the pipe and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream during fall 2013 inspection.

LM Start	1.97	Rating **	C	Issue No.	112
LM End	1.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.354775 °	38.354775 °
				-121.570843 °	-121.570843 °
DWR ID	DWR_RD0150_03_f_2013_112				
Action/Comments					
Prunings					

No Photos

LM Start	2.34	Rating **	M	Issue No.	78
LM End	2.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.354286 °	38.354286 °
				-121.564494 °	-121.564494 °
DWR ID	DWR_RD0150_03_s _ 2012_78				
Action/Comments					
Tree or limb					
Inspector Comments: New tree was planted on the landside slope.					

Photo 1 of 5 : pkazi\_s\_20140404\_071.jpg



View of the newly planted tree on the landside slope of the levee during spring 2014 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	2.34	Rating **	M	Issue No.	78 (cont)
LM End	2.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.354286 °	38.354286 °
				-121.564494 °	-121.564494 °
DWR ID	DWR_RD0150_03_s_2012_78				
Action/Comments					
Tree or limb					
Inspector Comments: New tree was planted on the landside slope.					

Photo 2 of 5 : pkazi\_s\_20140328\_684.jpg



Several newly planted tree were found on the landside slope of the levee looking upstream during the fall 2013 inspection.

LM Start	<b>2.34</b>	Rating **	M	Issue No.	<b>78 (cont)</b>
LM End	<b>2.34</b>	Issue Type +	En	Location *	LS

Photo 3 of 5 : pkazi\_s\_20140328\_683.jpg



New tree was found on the landside shoulder of the levee looking downstream. This picture was taken during fall 2012 inspection.

LM Start	<b>2.34</b>	Rating **	M	Issue No.	<b>78 (cont)</b>
LM End	<b>2.34</b>	Issue Type +	En	Location *	LS

Photo 4 of 5 : pkazi\_s\_20140328\_682.jpg



New tree was planted on the landside of the levee looking downstream.

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	2.34	Rating **	M	Issue No.	78 (cont)	
LM End	2.34	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.354286 °	38.354286 °	
				-121.564494 °	-121.564494 °	
DWR ID	DWR_RD0150_03_s _ 2012_78					
Action/Comments						
Tree or limb						

Photo 5 of 5 : pkazi\_s\_20140328\_681.jpg



New tree has been planted on the landside slope of the levee looking upstream.

LM Start	2.46	Rating **	M	Issue No.	53
LM End	2.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.355272 °	38.355272 °
				-121.563083 °	-121.563083 °
DWR ID	DWR_RD0150_03_s _ 2014_53				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : pkazi\_s\_20140404\_072.jpg



View of rodent holes on the waterside of the levee looking upstream.

LM Start	2.60	Rating **	N	Issue No.	11
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.356853 °	38.356853 °
				-121.561565 °	-121.561565 °
DWR ID	DWR_RD0150_03_s _ 2012_11				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_615.jpg



View of tree stumps on the landward slope.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	2.70	Rating **	M	Issue No.	54
LM End	7.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.358264 °	38.400057 °
				-121.561318 °	-121.535722 °
DWR ID	DWR_RD0150_03_s_2014_54				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.71	Rating **	M	Issue No.	34
LM End	2.71	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.358406 °	38.358406 °
				-121.561300 °	-121.561300 °
DWR ID	DWR_RD0150_03_s_2013_34				
Action/Comments					
Pipe					

Photo 1 of 1 : pkazi\_s\_20140328\_634.jpg



A pipe was found on the waterside shoulder of the levee looking downstream during spring 2013 inspection.

LM Start	2.86	Rating **	M	Issue No.	35
LM End	2.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.360432 °	38.360432 °
				-121.561644 °	-121.561644 °
DWR ID	DWR_RD0150_03_s_2013_35				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 2 : pkazi\_s\_20140404\_073.jpg



Updated picture of the erosion on the waterside slope of the levee during spring 2014 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	2.86	Rating **	M	Issue No.	35 (cont)
LM End	2.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.360432 °	38.360432 °
				-121.561644 °	-121.561644 °
DWR ID	DWR_RD0150_03_s _ 2013_35				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 2 of 2 : pkazi\_s\_20140328\_635.jpg



Erosion was found on the waterside slope of the levee looking downstream during spring 2013 inspection.

LM Start	2.87	Rating **	N	Issue No.	17
LM End	2.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.360621 °	38.360621 °
				-121.561762 °	-121.561762 °
DWR ID	DWR_RD0150_03_s _ 2012_17				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_622.jpg



View of tree stumps on the waterward slope.

LM Start	2.88	Rating **	M	Issue No.	72
LM End	2.88	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.360737 °	38.360737 °
				-121.561814 °	-121.561814 °
DWR ID	DWR_RD0150_03_s _ 2014_72				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

Photo 1 of 1 : pkazi\_s\_20140404\_074.jpg



A crown depression was found looking upstream.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	2.93	Rating **	M	Issue No.	76
LM End	2.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.361375 °	38.361375 °
				-121.562134 °	-121.562134 °
DWR ID	DWR_RD0150_03_s _ 2012_76				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : pkazi\_s\_20140328\_678.jpg



Slope instability was found on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee.

LM Start	<b>2.93</b>	Rating **	M	Issue No.	<b>76 (cont)</b>
LM End	<b>2.93</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_679.jpg



Erosion was found on the waterside of the levee looking upstream. This picture was taken during spring 2012 inspection.

LM Start	3.21	Rating **	N	Issue No.	20
LM End	3.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363658 °	38.363658 °
				-121.559583 °	-121.559583 °
DWR ID	DWR_RD0150_03_s _ 2012_20				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_623.jpg



View of tree stumps on the waterward slope.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.31	Rating **	M	Issue No.	91
LM End	3.31	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.363101 °	38.363101 °
				-121.557847 °	-121.557847 °
DWR ID	DWR_RD0150_03_f_2012_91				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : pkazi\_s\_20140328\_690.jpg



Crown depression was found on the access road looking downstream.

LM Start	3.34	Rating **	M	Issue No.	70
LM End	3.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.363015 °	38.363015 °
				-121.557325 °	-121.557325 °
DWR ID	DWR_RD0150_03_s_2012_70				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 3 : pkazi\_s\_20140404\_075.jpg



Updated view of the rodent hole on the landside shoulder of the levee during spring 2014 inspection.

LM Start	<b>3.34</b>	Rating **	M	Issue No.	<b>70 (cont)</b>
LM End	<b>3.34</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : pkazi\_s\_20140328\_675.jpg



Animal holes were found on the landside shoulder of the levee. This picture was taken from the crown looking towards the landside of the levee during fall 2012 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.34	Rating **	M	Issue No.	70 (cont)	
LM End	3.34	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			38.363015 °	38.363015 °	
				-121.557325 °	-121.557325 °	
DWR ID	DWR_RD0150_03_s _ 2012_70					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and						

Photo 3 of 3 : pkazi\_s\_20140328\_674.jpg



Rodent holes were found on the landside of the levee looking downstream.

LM Start	3.34	Rating **	M	Issue No.	71
LM End	3.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363015 °	38.363015 °
				-121.557325 °	-121.557325 °
DWR ID	DWR_RD0150_03_s _ 2012_71				
Action/Comments					
Material					

Photo 1 of 1 : pkazi\_s\_20140328\_676.jpg



Material was found on the landside of the levee looking downstream.

LM Start	3.34	Rating **	M	Issue No.	39
LM End	3.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363043 °	38.363043 °
				-121.557316 °	-121.557316 °
DWR ID	DWR_RD0150_03_s _ 2012_39				
Action/Comments					
Pipe					

Photo 1 of 1 : pkazi\_s\_20140328\_638.jpg



An abandoned pipe was located on the landside of the levee. The picture was taken from the crown looking downstream.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.35	Rating **	M	Issue No.	113
LM End	3.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.362992 °	38.362992 °
				-121.557275 °	-121.557275 °
DWR ID	DWR_RD0150_03_f_2013_113				
Action/Comments					
Pole					
Inspector Comments: Unused pole on the landside shoulder of the levee					

No Photos

LM Start	3.37	Rating **	M	Issue No.	40
LM End	3.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363008 °	38.363008 °
				-121.556751 °	-121.556751 °
DWR ID	DWR_RD0150_03_s_2013_40				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : pkazi\_s\_20140328\_639.jpg



Erosion was found on the waterside toe of the levee looking upstream during spring 2013 inspection.

LM Start	3.41	Rating **	N	Issue No.	27
LM End	3.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.363147 °	38.363147 °
				-121.556190 °	-121.556190 °
DWR ID	DWR_RD0150_03_s_2012_27				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_627.jpg



View of tree stumps on the waterside slope looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.45	Rating **	M	Issue No.	74
LM End	3.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.363565 °	38.364704 °
				-121.555543 °	-121.555364 °
DWR ID	DWR_RD0150_03_s_2014_74				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : pkazi\_s\_20140404\_076.jpg



View of the vegetation on the landside of the levee looking upstream.

LM Start	3.45	Rating **	M	Issue No.	114
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363540 °	38.363540 °
				-121.555555 °	-121.555555 °
DWR ID	DWR_RD0150_03_f_2013_114				
Action/Comments					
Stairway					

Photo 1 of 1 : pkazi\_s\_20140328\_695.jpg



Steps were dug on the waterside slope of the levee looking upstream.

LM Start	3.45	Rating **	U	Issue No.	115
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363540 °	38.363540 °
				-121.555554 °	-121.555554 °
DWR ID	DWR_RD0150_03_f_2013_115				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion was found on the landside toe of the levee.					

Photo 1 of 1 : pkazi\_s\_20140328\_696.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.47	Rating **	M	Issue No.	98
LM End	3.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.363803 °	38.363803 °
				-121.555432 °	-121.555432 °
DWR ID	DWR_RD0150_03_s _ 2012_98				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Erosion was located on the waterside of the levee looking downstream.					

Photo 1 of 1 : pkazi\_s\_20140328\_692.jpg



Erosion was found on the waterside of the levee looking downstream.

LM Start	3.50	Rating **	M	Issue No.	47
LM End	3.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.364251 °	38.364772 °
				-121.555321 °	-121.555343 °
DWR ID	DWR_RD0150_03_s _ 2012_47				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_643.jpg



Landscaping & garden on landward slope of levee at LM 3.50 to LM 3.54.

LM Start	3.51	Rating **	M	Issue No.	97
LM End	3.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.363205 °	38.363205 °
				-121.555962 °	-121.555962 °
DWR ID	DWR_RD0150_03_s _ 2012_97				
Action/Comments					
Equipment					

Photo 1 of 1 : pkazi\_s\_20140328\_691.jpg



Equipment was found on the landside of the levee looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.72	Rating **	M	Issue No.	15
LM End	3.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.367213 °	38.367213 °
				-121.555273 °	-121.555273 °
DWR ID	DWR_RD0150_03_s_2014_15				
Action/Comments					
Inspector Comments: FS_ID:20766					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Concrete standpipe on LS Levee damaged. Gate valve on WS not found. Safety valve on WS pipe.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.9 feet below the crown. Pump on the waterward slope. Concrete standpipe at the landward toe. (R. & J. Pylman) O&M Manual SAC 112, March 1957.					
FS Date: 8/20/2013					

Photo 1 of 1 : UCIP\_2338.jpg



WS view: steel pipe and pump on levee slope.

LM Start	3.75	Rating **	A/W	Issue No.	927
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367305 °	38.367305 °
				-121.554984 °	-121.554984 °
DWR ID	DWR_RD0150_03_s_2012_927				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 2 : pkazi\_s\_20140328\_701.jpg



Repair minor damage to levee slope along landward ramp at LM 3.75.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
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U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.75	Rating **	A/W	Issue No.	927 (cont)
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367305 °	38.367305 °
				-121.554984 °	-121.554984 °
DWR ID	DWR_RD0150_03_s_2012_927				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 2 of 2 : pkazi\_s\_20140328\_702.jpg



Slope instability possible due to vehicular traffic on the landside of the levee. The picture was taken from the crown looking upstream during Spring 2011 inspection.

LM Start	3.85	Rating **	M	Issue No.	116
LM End	3.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.367535 °	38.367535 °
				-121.552815 °	-121.552815 °
DWR ID	DWR_RD0150_03_f_2013_116				
Action/Comments					
Repair slope instability.					

No Photos

LM Start	3.93	Rating **	M	Issue No.	117
LM End	3.93	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.368120 °	38.368120 °
				-121.551522 °	-121.551522 °
DWR ID	DWR_RD0150_03_f_2013_117				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : pkazi\_s\_20140328\_697.jpg



Crown depression was found looking upstream during the fall 2013 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
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U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	3.95	Rating **	M	Issue No.	48
LM End	3.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.368118 °	38.368118 °
				-121.551509 °	-121.551509 °
DWR ID	DWR_RD0150_03_s_2012_48				
Action/Comments					
Debris					

Photo 1 of 3 : pkazi\_s\_20140328\_644.jpg



Debris pile on landward slope at LM 3.95.

LM Start	<b>3.95</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>3.95</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : pkazi\_s\_20140328\_645.jpg



Updated view of material piled at the toe of the levee as of fall 2009.

LM Start	<b>3.95</b>	Rating **	M	Issue No.	<b>48 (cont)</b>
LM End	<b>3.95</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : pkazi\_s\_20140328\_646.jpg



Debris found on the landside of the levee during Spring 2011 inspection.  
The picture was taken from the crown looking upstream.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	4.02	Rating **	M	Issue No.	75
LM End	7.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.369079 °	38.400056 °
				-121.551440 °	-121.535721 °
DWR ID	DWR_RD0150_03_s _ 2014_75				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	4.35	Rating **	N	Issue No.	37
LM End	4.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.373319 °	38.373319 °
				-121.550836 °	-121.550836 °
DWR ID	DWR_RD0150_03_s _ 2012_37				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_637.jpg



View of tree stumps on the waterward slope.

LM Start	4.46	Rating **	M	Issue No.	51
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s _ 2012_51				
Action/Comments					
Prunings					

Photo 1 of 4 : pkazi\_s\_20140328\_650.jpg



Remove pruning pile on landward slope at LM 4.46.

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2014

### Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	4.46	Rating **	M	Issue No.	51 (cont)
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374269 °	38.374269 °
				-121.549385 °	-121.549385 °
DWR ID	DWR_RD0150_03_s _ 2012_51				
Action/Comments					
Prunings					

Photo 2 of 4 : pkazi\_s\_20140328\_651.jpg



Prunings were found on the landside of the levee looking downstream.

Photo 3 of 4 : pkazi\_s\_20140328\_652.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2012 inspection.

Photo 4 of 4 : pkazi\_s\_20140328\_653.jpg



Updated picture of the pruning pile on the landside of the levee looking upstream during the fall 2013 inspection.

LM Start	<b>4.46</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>4.46</b>	Issue Type +	Ma	Location *	LS

LM Start	<b>4.46</b>	Rating **	M	Issue No.	<b>51 (cont)</b>
LM End	<b>4.46</b>	Issue Type +	Ma	Location *	LS

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	4.51	Rating **	M	Issue No.	52
LM End	4.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.374267 °	38.374267 °
				-121.548441 °	-121.548441 °
DWR ID	DWR_RD0150_03_s _ 2012_52				
Action/Comments					
Tree or limb					

Photo 1 of 1 : pkazi\_s\_20140328\_654.jpg



Tree branches were found on the toe of landside of the levee. The picture was taken from the crown looking downstream.

LM Start	4.57	Rating **	M	Issue No.	80
LM End	4.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.374355 °	38.374355 °
				-121.547436 °	-121.547436 °
DWR ID	DWR_RD0150_03_s _ 2014_80				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : pkazi\_s\_20140404\_077.jpg



View of an erosion on the waterside toe of the levee looking upstream.

LM Start	4.58	Rating **	M	Issue No.	94
LM End	4.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.374367 °	38.374367 °
				-121.547327 °	-121.547327 °
DWR ID	DWR_RD0150_03_s _ 2012_94				
Action/Comments					
Landscaping					

No Photos

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	4.71	Rating **	M	Issue No.	18
LM End	4.71	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.374933 °	38.374933 °
				-121.545029 °	-121.545029 °
DWR ID	DWR_RD0150_03_s_2014_18				
Action/Comments					
Inspector Comments: FS_ID:19281					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - service pole on LS. 1" conduit on WS levee toe cut out on landside walkway and gate.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.8 feet below the crown, pump on piling in stream. Concrete standpipe at the landward toe. (P. Cook) O&M Manual SAC 112, March 1957.					
FS Date: 8/20/2013					

Photo 1 of 1 : UCIP\_1802.jpg



WS view: vertical pump on deck.

LM Start	4.95	Rating **	M	Issue No.	65
LM End	4.95	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.377333 °	38.377333 °
				-121.541930 °	-121.541930 °
DWR ID	DWR_RD0150_03_s_2013_65				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 2 : pkazi\_s\_20140404\_078.jpg



Updated view of the crown depression during spring 2014 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	4.95	Rating **	M	Issue No.	65 (cont)	
LM End	4.95	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Crown Surface / Depressions / Rutting			38.377333 °	38.377333 °	
				-121.541930 °	-121.541930 °	
DWR ID	DWR_RD0150_03_s _ 2013_65					
Action/Comments						
Add appropriate gravel or road base. Grade and compact.						

Photo 2 of 2 : pkazi\_s\_20140328\_669.jpg



Crown depressions were found during spring 2013 inspection looking upstream.

LM Start	4.98	Rating **	M	Issue No.	9
LM End	4.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.377761 °	38.377761 °
				-121.541319 °	-121.541319 °
DWR ID	DWR_RD0150_03_s _ 2012_9				
Action/Comments					
Equipment					

Photo 1 of 1 : pkazi\_s\_20140328\_614.jpg



Equipment on the landside toe of the levee. The picture was taken from crown looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	4.99	Rating **	M	Issue No.	19
LM End	4.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.377718 °	38.377718 °
				-121.541413 °	-121.541413 °
DWR ID	DWR_RD0150_03_s_2014_19				
Action/Comments					
Inspector Comments: FS_ID:19283					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - seems abandoned,may need proper abandonment					
FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 7.2 feet below the crown, gate valve on the landward end. (D. Conner) O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_1808.jpg



WS view: steel pipe on levee slope and in the stream.

LM Start	5.08	Rating **	M	Issue No.	36
LM End	5.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.378771 °	38.378771 °
				-121.540538 °	-121.540538 °
DWR ID	DWR_RD0150_03_f_2012_36				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : pkazi\_s\_20140328\_636.jpg



Slope instability was found on the waterside of the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	5.13	Rating **	M	Issue No.	4
LM End	5.13	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.379456 °	38.379456 °
				-121.540147 °	-121.540147 °
DWR ID	DWR_RD0150_03_s _ 2012_4				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : pkazi\_s\_20140328\_610.jpg



Slope instability was found on the waterside of the levee looking upstream.

LM Start	<b>5.13</b>	Rating **	M	Issue No.	<b>4 (cont)</b>
LM End	<b>5.13</b>	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_611.jpg



Updated picture of the slope instability on the waterside slope of the levee looking downstream during the fall 2013 inspection.

LM Start	5.15	Rating **	C	Issue No.	118
LM End	5.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.379759 °	38.379759 °
				-121.540063 °	-121.540063 °
DWR ID	DWR_RD0150_03_f _ 2013_118				
Action/Comments					
Prunings					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	5.22	Rating **	M	Issue No.	941
LM End	5.22	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.380779 °	38.380779 °
				-121.540264 °	-121.540264 °
DWR ID	DWR_RD0150_03_s _ 2012_941				
Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.					

Photo 1 of 1 : pkazi\_s\_20140328\_709.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

LM Start	5.61	Rating **	M	Issue No.	12
LM End	5.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.383328 °	38.383328 °
				-121.545825 °	-121.545825 °
DWR ID	DWR_RD0150_03_s _ 2012_12				
Action/Comments					
Prunings					

Photo 1 of 4 : pkazi\_s\_20140328\_616.jpg



Prunings were found on the landside of the levee looking upstream.

LM Start	<b>5.61</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>5.61</b>	Issue Type +	En	Location *	LS

Photo 2 of 4 : pkazi\_s\_20140328\_617.jpg



Pruning was found on the landside toe of the levee looking upstream.  
This picture was taken during fall 2012 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	5.61	Rating **	M	Issue No.	12 (cont)	
LM End	5.61	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.383328 °	38.383328 °	
				-121.545825 °	-121.545825 °	
DWR ID	DWR_RD0150_03_s _ 2012_12					
Action/Comments						
Prunings						

Photo 3 of 4 : pkazi\_s\_20140328\_618.jpg



Updated picture of debris and pruning on the landside toe of the levee looking upstream. This picture was taken during spring 2013 inspection.

LM Start	<b>5.61</b>	Rating **	M	Issue No.	<b>12 (cont)</b>
LM End	<b>5.61</b>	Issue Type +	En	Location *	LS

Photo 4 of 4 : pkazi\_s\_20140328\_619.jpg



Updated picture of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

LM Start	5.66	Rating **	N	Issue No.	68
LM End	5.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383697 °	38.383697 °
				-121.545201 °	-121.545201 °
DWR ID	DWR_RD0150_03_s _ 2012_68				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_673.jpg



Tree stump was found on the waterside of the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	5.80	Rating **	N	Issue No.	41
LM End	5.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.383969 °	38.383969 °
				-121.542806 °	-121.542806 °
DWR ID	DWR_RD0150_03_s _ 2012_41				
Action/Comments					
Tree stumps.					

No Photos

LM Start	5.81	Rating **	M	Issue No.	22
LM End	5.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.383996 °	38.383996 °
				-121.542638 °	-121.542638 °
DWR ID	DWR_RD0150_03_s _ 2014_22				
Action/Comments					
Inspector Comments: FS_ID:28265					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - levee toe cut out at open end of the pipe.service pole and control box on river bank.					
FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 7.8 feet below crown. Pump and gate valve on steel platform. Cross fence, wire drag gate. (Permit No. 1167, D. Conner) O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_5607.jpg



WS view: walkway, pipe, pump and support deck on river bank.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	5.88	Rating **	M	Issue No.	28
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.384333 °	38.384333 °
				-121.541310 °	-121.541310 °
DWR ID	DWR_RD0150_03_s _ 2012_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : pkazi\_s\_20140328\_628.jpg



Wild growth was found on the waterside slope of the levee looking upstream.

LM Start	5.89	Rating **	M	Issue No.	56
LM End	5.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384363 °	38.384796 °
				-121.541161 °	-121.540525 °
DWR ID	DWR_RD0150_03_s _ 2012_56				
Action/Comments					
Fence					

Photo 1 of 1 : pkazi\_s\_20140328\_656.jpg



View of fence around a horse pen along the shoulder of the levee and the landward slope.

LM Start	5.93	Rating **	M	Issue No.	57
LM End	5.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384648 °	38.384648 °
				-121.540669 °	-121.540669 °
DWR ID	DWR_RD0150_03_s _ 2012_57				
Action/Comments					
Tree or limb					

Photo 1 of 1 : pkazi\_s\_20140328\_657.jpg



View of a tree trunk lying on the landward slope blocking visibility.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	5.93	Rating **	U	Issue No.	58
LM End	5.93	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.384803 °	38.384803 °
				-121.540545 °	-121.540545 °
DWR ID	DWR_RD0150_03_s _ 2012_58				
Action/Comments					
Building					

Photo 1 of 1 : pkazi\_s\_20140328\_658.jpg



Building &amp; associated landscaping on levee crown at LM 5.93.

LM Start	6.01	Rating **	M	Issue No.	21
LM End	6.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.385752 °	38.386703 °
				-121.539905 °	-121.540042 °
DWR ID	DWR_RD0150_03_s _ 2012_21				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_624.jpg



Landscaping was found on the landside of the levee looking upstream.

LM Start	6.05	Rating **	M	Issue No.	33
LM End	6.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.386351 °	38.386351 °
				-121.539828 °	-121.539828 °
DWR ID	DWR_RD0150_03_s _ 2012_33				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : pkazi\_s\_20140328\_633.jpg



Tree trunks and vegetation was obstructing the visibility on the waterside slope of the levee looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	6.06	Rating **	M	Issue No.	29
LM End	6.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.386401 °	38.386401 °
				-121.539834 °	-121.539834 °
DWR ID	DWR_RD0150_03_s _ 2014_29				
Action/Comments					
Inspector Comments: FS_ID:19403					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - pipe ends open on both sides of the levee.					
abandoned concrete box on WS.two abandoned steel pipes (6" and 1") also found on WS. needs proper abandonment					
FIELD_STRUCT_DESC: Abandoned 6-inch steel pipe through the levee, 2.5 feet below the crown. Power pole on the landward slope. (W. Bogle). O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_1821.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and another 6" steel pipe (right) on levee slope.

LM Start	6.06	Rating **	M	Issue No.	46
LM End	6.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.386422 °	38.386422 °
				-121.539861 °	-121.539861 °
DWR ID	DWR_RD0150_03_s _ 2012_46				
Action/Comments					
Pipe					
Inspector Comments: Improperly abandoned pipe through the levee.					

Photo 1 of 1 : pkazi\_s\_20140328\_642.jpg



View of an improperly abandoned pipe through the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	6.14	Rating **	M	Issue No.	44
LM End	6.14	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.387295 °	38.387295 °
				-121.540612 °	-121.540612 °
DWR ID	DWR_RD0150_03_s _ 2012_44				
Action/Comments					
Abandoned vehicles					
Inspector Comments: It appeared to be an abandoned dock.					

Photo 1 of 1 : pkazi\_s\_20140328\_641.jpg



An abandoned dock was found on the waterside of the levee looking upstream.

LM Start	6.14	Rating **	M	Issue No.	23
LM End	6.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.387348 °	38.387348 °
				-121.540577 °	-121.540577 °
DWR ID	DWR_RD0150_03_s _ 2012_23				
Action/Comments					
Landscaping					

No Photos

LM Start	6.24	Rating **	M	Issue No.	24
LM End	6.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.388535 °	38.389391 °
				-121.541657 °	-121.541901 °
DWR ID	DWR_RD0150_03_s _ 2012_24				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_625.jpg



Oleander on landward slope blocking view of levee from LM 6.24 to 6.32

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	6.34	Rating **	N	Issue No.	49
LM End	6.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.389658 °	38.389658 °
				-121.541518 °	-121.541518 °
DWR ID	DWR_RD0150_03_s _ 2012_49				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_647.jpg



View of tree stumps on the waterward slope.

LM Start	6.35	Rating **	M	Issue No.	25
LM End	6.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389700 °	38.389808 °
				-121.541462 °	-121.541285 °
DWR ID	DWR_RD0150_03_s _ 2012_25				
Action/Comments					
Landscaping					

No Photos

LM Start	6.37	Rating **	M	Issue No.	26
LM End	6.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.389858 °	38.390115 °
				-121.541155 °	-121.540657 °
DWR ID	DWR_RD0150_03_s _ 2012_26				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_626.jpg



Landscaping on landward slope blocking view from LM 6.37 to 6.40

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	6.49	Rating **	M	Issue No.	62
LM End	6.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.390935 °	38.390935 °
				-121.539369 °	-121.539369 °
DWR ID	DWR_RD0150_03_s _ 2012_62				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : pkazi\_s\_20140328\_665.jpg



Vegetation on the waterside of the levee looking downstream.

LM Start	<b>6.49</b>	Rating **	M	Issue No.	<b>62 (cont)</b>
LM End	<b>6.49</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_666.jpg



Tree was blocking the visibility on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

LM Start	6.56	Rating **	M	Issue No.	60
LM End	6.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.391616 °	38.391616 °
				-121.538378 °	-121.538378 °
DWR ID	DWR_RD0150_03_s _ 2012_60				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_660.jpg



View of landscaping along the landward slope.

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	6.61	Rating **	M	Issue No.	43
LM End	6.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.392172 °	38.392172 °
				-121.538065 °	-121.538065 °
DWR ID	DWR_RD0150_03_f_2012_43				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : pkazi\_s\_20140328\_640.jpg



Slope instability was found on the waterside of the levee looking downstream.

LM Start	6.64	Rating **	C	Issue No.	77
LM End	6.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.392650 °	38.392650 °
				-121.538089 °	-121.538089 °
DWR ID	DWR_RD0150_03_f_2012_77				
Action/Comments					
Prunings					

No Photos

LM Start	6.87	Rating **	M	Issue No.	30
LM End	6.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.395670 °	38.396027 °
				-121.537925 °	-121.536575 °
DWR ID	DWR_RD0150_03_s_2012_30				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_629.jpg



Landscaping on landward slope blocking view from LM 6.87 to 6.95

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	6.93	Rating **	M	Issue No.	13
LM End	6.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.395470 °	38.395998 °
				°	-121.536613 °
DWR ID	DWR_RD0150_03_s _ 2012_13				
Action/Comments					
Fence					

Photo 1 of 1 : pkazi\_s\_20140328\_620.jpg



Fence was found on the landside of the levee looking downstream.

LM Start	6.98	Rating **	M	Issue No.	933
LM End	7.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.396187 °	38.396989 °
				-121.536180 °	-121.535151 °
DWR ID	DWR_RD0150_03_s _ 2012_933				
Action/Comments					
Landscaping Inspector Comments: Landscaping has been maintained better, but some obstructions still exist.					

Photo 1 of 1 : pkazi\_s\_20140328\_703.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

LM Start	7.02	Rating **	M	Issue No.	79
LM End	7.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.396698 °	38.396698 °
				-121.535406 °	-121.535406 °
DWR ID	DWR_RD0150_03_f _ 2012_79				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.02	Rating **	M	Issue No.	61
LM End	7.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.396655 °	38.396655 °
				-121.535485 °	-121.535485 °
DWR ID	DWR_RD0150_03_s_2012_61				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 4 : pkazi\_s\_20140328\_661.jpg



Updated erosion site picture on the waterside slope of the levee looking upstream during Spring 2011 inspection.

LM Start	<b>7.02</b>	Rating **	M	Issue No.	<b>61 (cont)</b>
LM End	<b>7.02</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : pkazi\_s\_20140328\_662.jpg



Erosion was found on the waterside of the levee looking downstream. This picture was taken during fall 2011 inspection.

LM Start	<b>7.02</b>	Rating **	M	Issue No.	<b>61 (cont)</b>
LM End	<b>7.02</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : pkazi\_s\_20140328\_663.jpg



Erosion on the waterside of the levee looking upstream. This picture was taken during spring 2012 inspection.

**\* Location**  
LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.02	Rating **	M	Issue No.	61 (cont)
LM End	7.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.396655 °	38.396655 °
				-121.535485 °	-121.535485 °
DWR ID	DWR_RD0150_03_s _ 2012_61				
Action/Comments					
Note and monitor erosion site.					

Photo 4 of 4 : pkazi\_s\_20140328\_664.jpg



Erosion was found on the waterside slope of the levee looking downstream. This updated picture was taken during fall 2012 inspection.

LM Start	7.06	Rating **	M	Issue No.	31
LM End	7.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.397021 °	38.397540 °
				-121.535151 °	-121.535183 °
DWR ID	DWR_RD0150_03_s _ 2012_31				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_630.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.34	Rating **	M	Issue No.	38
LM End	7.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.400882 °	38.400882 °
				-121.536200 °	-121.536200 °
DWR ID	DWR_RD0150_03_s _ 2014_38				
Action/Comments					
Inspector Comments: FS_ID:19723					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - Safety valve on pipe on waterside.Power pole on waterside.gully formation (erosion) on waterside levee slope					
FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 7.7 feet below the crown, pump and gate valve on the waterward slope. Power pole on waterside. O&M Manual Sac 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_2086.jpg



WS view: pipe and pump on levee slope.

LM Start	7.37	Rating **	M	Issue No.	85
LM End	7.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401223 °	38.403076 °
				-121.536580 °	-121.538433 °
DWR ID	DWR_RD0150_03_s _ 2014_85				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.39	Rating **	M	Issue No.	64
LM End	7.39	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401481 °	38.401481 °
				-121.536876 °	-121.536876 °
DWR ID	DWR_RD0150_03_s_2012_64				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_668.jpg



Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream.

LM Start	7.42	Rating **	M	Issue No.	32
LM End	7.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.401738 °	38.402296 °
				-121.537127 °	-121.537678 °
DWR ID	DWR_RD0150_03_s_2012_32				
Action/Comments					
Landscaping					

Photo 1 of 2 : pkazi\_s\_20140328\_631.jpg



Landscaping on landward slope blocking view from LM 7.42 to 7.47

LM Start	<b>7.42</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>7.47</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : pkazi\_s\_20140328\_632.jpg



Vegetation on the landside of the levee looking upstream. This picture was taken during spring 2012 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.50	Rating **	N	Issue No.	63
LM End	7.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.402779 °	38.402779 °
				-121.538197 °	-121.538197 °
DWR ID	DWR_RD0150_03_s _ 2012_63				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_667.jpg



View of a tree stump on the landward slope.

LM Start	7.54	Rating **	M	Issue No.	84
LM End	7.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403047 °	38.403047 °
				-121.538433 °	-121.538433 °
DWR ID	DWR_RD0150_03_s _ 2012_84				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_685.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

LM Start	7.58	Rating **	M	Issue No.	934
LM End	7.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403566 °	38.403566 °
				-121.538886 °	-121.538886 °
DWR ID	DWR_RD0150_03_s _ 2012_934				
Action/Comments					
Landscaping					

Photo 1 of 1 : pkazi\_s\_20140328\_704.jpg



Landscaping was blocking the visibility on the landside of the levee looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.59	Rating **	M	Issue No.	86
LM End	9.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.403658 °	38.413068 °
				-121.539006 °	-121.523953 °
DWR ID	DWR_RD0150_03_s _ 2014_86				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	7.60	Rating **	M	Issue No.	935
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.403795 °	38.403795 °
				-121.539205 °	-121.539205 °
DWR ID	DWR_RD0150_03_s _ 2012_935				
Action/Comments					
Prunings					

Photo 1 of 3 : pkazi\_s\_20140328\_705.jpg



Prunings located on the toe of landward side of the levee. The picture was taken from the crown looking upstream.

LM Start	<b>7.60</b>	Rating **	M	Issue No.	<b>935 (cont)</b>
LM End	<b>7.60</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : pkazi\_s\_20140328\_706.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.60	Rating **	M	Issue No.	935 (cont)	
LM End	7.60	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.403795 °	38.403795 °	
				-121.539205 °	-121.539205 °	
DWR ID	DWR_RD0150_03_s _ 2012_935					
Action/Comments						
Prunings						

Photo 3 of 3 : pkazi\_s\_20140328\_707.jpg



Prunings were found on the landside of the levee looking upstream.

LM Start	7.81	Rating **	M	Issue No.	1
LM End	7.81	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405275 °	38.405275 °
				-121.542473 °	-121.542473 °
DWR ID	DWR_RD0150_03_s _ 2012_1				
Action/Comments					
Pole					

No Photos

LM Start	7.82	Rating **	M	Issue No.	16
LM End	7.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405342 °	38.405342 °
				-121.542553 °	-121.542553 °
DWR ID	DWR_RD0150_03_s _ 2012_16				
Action/Comments					
Equipment					

Photo 1 of 1 : pkazi\_s\_20140328\_621.jpg



Equipment was found on the landside of the levee looking upstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

\*\* Rating  
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M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	7.85	Rating **	C	Issue No.	119
LM End	7.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.405625 °	38.405625 °
				-121.542835 °	-121.542835 °
DWR ID	DWR_RD0150_03_f_2013_119				
Action/Comments					
Prunings					

No Photos

LM Start	8.05	Rating **	M	Issue No.	87
LM End	8.05	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408342 °	38.408342 °
				-121.541580 °	-121.541580 °
DWR ID	DWR_RD0150_03_s_2012_87				
Action/Comments					
Pipe					
Inspector Comments: An abandoned pipe.					

Photo 1 of 1 : pkazi\_s\_20140328\_686.jpg



An abandoned pipe was found on the waterside of the levee looking upstream.

LM Start	8.16	Rating **	M	Issue No.	92
LM End	8.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.409130 °	38.409130 °
				-121.539971 °	-121.539971 °
DWR ID	DWR_RD0150_03_s_2014_92				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : pkazi\_s\_20140408\_080.jpg



A slope instability was found on the waterside of the levee looking downstream.

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable  
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C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

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Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	8.19	Rating **	M	Issue No.	82
LM End	8.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.409224 °	38.409224 °
				-121.539350 °	-121.539350 °
DWR ID	DWR_RD0150_03_f_2013_82				
Action/Comments					
Prunings					

No Photos

LM Start	8.35	Rating **	M	Issue No.	45
LM End	8.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.408619 °	38.408619 °
				-121.536768 °	-121.536768 °
DWR ID	DWR_RD0150_03_s_2014_45				
Action/Comments					
Inspector Comments: FS_ID:19744					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: - needs proper abandonment pile structure in stream may need proper abandonment					
FIELD_STRUCT_DESC: 10-inch abandoned steel pipe through the levee, 13.8 feet below the crown. Gate valve on the waterward end.					
Service pole with guy wire on the landward slope. (A. Colby) O&M Manual SAC 112, March 1957.					
FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_2107.jpg



WS view: abandoned gate valve found on levee slope.

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	8.46	Rating **	M	Issue No.	66
LM End	8.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407960 °	38.407960 °
				-121.534898 °	-121.534898 °
DWR ID	DWR_RD0150_03_s _ 2012_66				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : pkazi\_s\_20140328\_670.jpg



Repair erosion on waterward slope near shoulder at LM 8.46.

LM Start	8.48	Rating **	M	Issue No.	67
LM End	8.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.407958 °	38.407958 °
				-121.534583 °	-121.534583 °
DWR ID	DWR_RD0150_03_s _ 2012_67				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 3 : pkazi\_s\_20140408\_081.jpg



Updated picture of the slope instability on the waterside shoulder looking upstream during spring 2014 inspection.

LM Start	<b>8.48</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>8.48</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : pkazi\_s\_20140328\_672.jpg



Slope instability was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

\* Location  
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WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	8.48	Rating **	M	Issue No.	67 (cont)	
LM End	8.48	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Erosion / Bank Caving			38.407958 °	38.407958 °	
				-121.534583 °	-121.534583 °	
DWR ID	DWR_RD0150_03_s _ 2012_67					
Action/Comments						
Note and monitor erosion site.						

Photo 3 of 3 : pkazi\_s\_20140328\_671.jpg



Slope instability on the waterside slope of the levee. The picture was taken from the crown looking upstream.

LM Start	8.52	Rating **	M	Issue No.	89
LM End	8.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.408153 °	38.408153 °
				-121.533980 °	-121.533980 °
DWR ID	DWR_RD0150_03_s _ 2012_89				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 2 : pkazi\_s\_20140328\_687.jpg



A rodent hole was found on the waterside of the levee looking upstream.

LM Start	<b>8.52</b>	Rating **	M	Issue No.	<b>89 (cont)</b>
LM End	<b>8.52</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : pkazi\_s\_20140328\_688.jpg



Updated picture of the rodent hole on the waterside shoulder of the levee looking downstream during the fall 2013 inspection.

\* Location  
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WS : Water Side  
CR : Crown

\*\* Rating  
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M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	8.52	Rating **	M	Issue No.	88
LM End	8.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408155 °	38.408155 °
				-121.533982 °	-121.533982 °
DWR ID	DWR_RD0150_03_s _ 2012_88				
Action/Comments					
Pole					

No Photos

LM Start	8.52	Rating **	M	Issue No.	69
LM End	8.62	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.408238 °	38.409291 °
				-121.533866 °	-121.532702 °
DWR ID	DWR_RD0150_03_s _ 2012_69				
Action/Comments					
Ditch Inspector Comments: Irrigation ditch in landside toe					

No Photos

LM Start	8.62	Rating **	M	Issue No.	120
LM End	8.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.409287 °	38.409287 °
				-121.532718 °	-121.532718 °
DWR ID	DWR_RD0150_03_f _ 2013_120				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : pkazi\_s\_20140328\_700.jpg



A rodent hole was found on the landside slope of the levee. The picture was taken from the landside toe looking towards the crown during fall 2013 inspection.

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WS : Water Side  
CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	8.62	Rating **	N	Issue No.	90
LM End	8.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409220 °	38.409220 °
				-121.532801 °	-121.532801 °
DWR ID	DWR_RD0150_03_s _ 2012_90				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_689.jpg



A tree stump was found on the landside of the levee looking upstream.

LM Start	8.65	Rating **	N	Issue No.	55
LM End	8.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.409559 °	38.409559 °
				-121.532356 °	-121.532356 °
DWR ID	DWR_RD0150_03_s _ 2012_55				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_655.jpg



A tree stump was found on the waterside of the levee looking upstream.

LM Start	8.87	Rating **	M	Issue No.	7
LM End	8.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.411593 °	38.411593 °
				-121.529143 °	-121.529143 °
DWR ID	DWR_RD0150_03_s _ 2012_7				
Action/Comments					
Debris					

Photo 1 of 1 : pkazi\_s\_20140328\_613.jpg



Broken concrete pipe was left on the waterside slope of the levee. The picture was taken from the crown looking upstream.

**\* Location**

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WS : Water Side  
CR : Crown

**\*\* Rating**

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C : Corrected  
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**+ Issue Type**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2014**

**Reclamation District No. 0150 Merrit Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.58	04/04/2014 04/08/2014	Pavel Kazi

LM Start	9.38	Rating **	N	Issue No.	59
LM End	9.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413268 °	38.413268 °
				-121.525929 °	-121.525929 °
DWR ID	DWR_RD0150_03_s _ 2012_59				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : pkazi\_s\_20140328\_659.jpg



A tree stump was found on the waterside of the levee looking upstream.

LM Start	9.51	Rating **	M	Issue No.	73
LM End	9.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.413169 °	38.413169 °
				-121.523707 °	-121.523707 °
DWR ID	DWR_RD0150_03_s _ 2012_73				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : pkazi\_s\_20140328\_677.jpg



Thin/trim trees to allow for visibility of top 20' of waterward slope at LM 9.51.

LM Start	9.56	Rating **	M	Issue No.	950
LM End	9.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.413560 °	38.413560 °
				-121.522936 °	-121.522936 °
DWR ID	DWR_RD0150_03_s _ 2012_950				
Action/Comments					
Equipment					

Photo 1 of 1 : pkazi\_s\_20140328\_710.jpg



Equipment was found on the landside of the levee looking downstream.

\* Location  
LS : Land Side  
WS : Water Side  
CR : Crown

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+ Issue Type  
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